

Title (en)
Differential amplifier

Title (de)
Differenzverstärker

Title (fr)
Amplificateur différentiel

Publication
EP 0729226 A2 19960828 (EN)

Application
EP 96102780 A 19960224

Priority
• JP 3818595 A 19950227
• JP 31894395 A 19951207

Abstract (en)
A differential amplifier achieving a high throughput rate with reduced power consumption includes a differential circuit (1), output circuit (2), a constant current source transistor (21), a drive transistor (3), and a switching circuit (4). A difference voltage (V_x) relative to a difference between voltages applied to non-inverting and inverting inputs of the differential circuit (1) is applied to the switching circuit (4). The switching circuit (4) supplies a drive signal to the drive transistor (3) to enable the drive transistor (3) when the difference voltage (V_x) is below a predetermined threshold voltage (V_T), and to disable the drive transistor (3) when the difference voltage (V_x) is above the predetermined threshold voltage.
<IMAGE>

IPC 1-7
H03F 3/45

IPC 8 full level
H03M 1/66 (2006.01); **H03F 1/02** (2006.01); **H03F 3/30** (2006.01); **H03K 6/02** (2006.01); **H03K 17/16** (2006.01); **H03K 17/687** (2006.01); **H03K 19/0175** (2006.01)

CPC (source: EP KR US)
H03F 1/0277 (2013.01 - EP US); **H03F 3/3001** (2013.01 - EP US); **H03F 3/45** (2013.01 - KR); **H03F 2203/30057** (2013.01 - EP US)

Cited by
US6348815B1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0729226 A2 19960828; **EP 0729226 A3 19990217**; **EP 0729226 B1 20030730**; CN 1057648 C 20001018; CN 1134624 A 19961030; DE 69629226 D1 20030904; DE 69629226 T2 20040422; JP 3537569 B2 20040614; JP H08298445 A 19961112; KR 100189711 B1 19990601; KR 960032880 A 19960917; TW 307951 B 19970611; US 5841317 A 19981124

DOCDB simple family (application)
EP 96102780 A 19960224; CN 96102706 A 19960227; DE 69629226 T 19960224; JP 31894395 A 19951207; KR 19960004814 A 19960227; TW 85102175 A 19960226; US 60694596 A 19960226